

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER D-208
Relating to Exemptions Under Section 27156
of the Vehicle Code

VENTURES UNLIMITED, INC.
CLEAN AIR VALVE/PCV ENHANCER

WHEREAS, Vehicle Code Section 27156 and Title 13 California Code of Regulations (hereafter "CCR") Section 2222(e), authorize the California Air Resources Board (ARB) and its Executive Officer to exempt add-on and modified parts from the prohibitions of Vehicle Code Section 27156.

WHEREAS, Ventures Unlimited, Inc. has applied to the ARB for exemption from the prohibitions of Vehicle Code Section 27156 for a device named the Clean Air Valve/PCV Enhancer for all gasoline powered internal combustion engines.

WHEREAS, pursuant to the authority vested in the Executive Officer by Health and Safety Code Section 39515 and in the Chief, Mobile Source Division by Health and Safety Code Section 39516 and Executive Order G-45-5, the Air Resources Board finds:

1. The Clean Air Valve/PCV Enhancer is a modified device which is part of the PCV valve emission control unit.
2. The Clean Air Valve/PCV Enhancer is intended for use with a required motor vehicle pollution control system.
3. The Clean Air Valve/PCV Enhancer by being installed in the engine alters the original design of a motor vehicle pollution control system.
4. The Clean Air Valve/PCV Enhancer is a device subject to the prohibitions of Vehicle Code Section 27156 and a modified part as defined by 13 CCR Section 1900(b)(10).
5. The Clean Air Valve/PCV Enhancer does not reduce the effectiveness of any required motor vehicle pollution control device.
6. The Air Resources Board, in the exercise of technical judgement, is aware of no basis on which the Clean Air Valve/PCV Enhancer will provide an increase in fuel economy.

7. It has not been determined what effect use of the Clean Air Valve/PCV Enhancer may have on any warranty, either expressed or implied, by the manufacturer of a motor vehicle on which the device is installed.
8. The Clean Air Valve/PCV Enhancer is not a certified motor vehicle pollution control device pursuant to Health and Safety Code Section 43644.
9. The Air Resources Board by granting an exemption to Ventures Unlimited, Inc. for the Clean Air Valve/PCV Enhancer does not recommend or endorse in any way the Clean Air Valve/PCV Enhancer for emissions reduction, fuel economy, or any other purpose.

IT IS HEREBY RESOLVED that the Clean Air Valve/PCV Enhancer is exempt from the prohibitions of Vehicle Code Section 27156 for installation on 1991 and earlier model-year vehicles powered with gasoline internal combustion engines subject to the following conditions:

1. This exemption shall not apply to any device, apparatus, or mechanism advertised, offered for sale or sold with, or installed on, a motor vehicle prior to or concurrent with transfer to an ultimate purchaser.
2. No changes are permitted to the device as described in the application for exemption. Any changes to the device, applicable model year, or other factors addressed in this order must be evaluated and approved by the Air Resources Board prior to marketing in California.
3. Marketing of this device using an identification other than that shown in this Executive Order or marketing of this device for an application other than those listed in the Executive Order shall be prohibited unless prior approval is obtained from the Air Resources Board. Exemption of this product shall not be construed as an exemption to sell, offer for sale, or advertise any component of the product as an individual device.
4. Any oral or written references to this Executive Order or its content by Ventures Unlimited, Inc., its principals, agents, employees, distributors, dealers, or other representatives must include the disclaimer that the Executive Order or the exemption it provides is not an endorsement or approval of any fuel economy or emissions reduction claims for the Clean Air Valve/PCV Enhancer and is only a finding that the device is exempt from the prohibitions of Vehicle Code Section 27156.

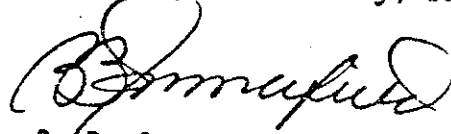
VENTURES UNLIMITED, INC.
CLEAN AIR VALVE/PCV ENHANCER

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5. No claim of any kind, such as "Approved by the Air Resources Board" may be made with respect to the action taken herein in any advertising or other oral or written communication.

Violation of any of the above conditions shall be grounds for revocation of this order. The order may be revoked only after ten day written notice of intention to revoke the order, in which period the holder of the order may request in writing a hearing to contest the proposed revocation. If a hearing is requested, it shall be held within ten days of receipt of the request and the order may not be revoked until a determination after hearing that grounds for revocation exist.

Executed at El Monte, California, this 4th day of February, 1991.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

Original

State of California
AIR RESOURCES BOARD

EVALUATION OF VENTURES UNLIMITED, INC.'S CLEAN AIR VALVE/PCV ENHANCER
FOR EXEMPTION FROM THE PROHIBITIONS OF VEHICLE CODE
SECTION 27156 IN ACCORDANCE WITH SECTION 2222, TITLE 13, OF THE
CALIFORNIA CODE OF REGULATIONS

February 1991

State of California
AIR RESOURCES BOARD

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CALIFORNIA CODE OF REGULATIONS

by

Mobile Source Division
State of California
Air Resources Board
9528 Telstar Avenue
El Monte, CA 91731

(This report has been reviewed by the staff of the California Air Resources Board and approved for publication. Approval does not signify that the contents necessarily reflect the views and policies of the Air Resources Board, nor does mention of trade names or commercial products constitute endorsement or recommendation for use.)

SUMMARY

Ventures Unlimited, Inc., of P. O. Box 382, Paulden, AZ 86334, has applied for exemption from the prohibitions in Section 27156 of the California Vehicle Code for their Clean Air Valve/PCV Enhancer. The Clean Air Valve/PCV Enhancer is designed for installation on 1991 and older model year gasoline powered vehicles.

Ventures Unlimited, Inc. has submitted a complete application with all the required information. This device is used in place of the PCV valve to filter crankcase emissions from going into the combustion chamber. Previously, the Air Resources Board has exempted two similar devices; "Protector '7'" by Energy Innovations U.S.A., Inc. and "Condensator" by Condensator, Inc. Based on the engineering evaluation of the device and exemption of similar devices, the staff believes the Clean Air Valve/PCV Enhancer does not have any adverse effect on exhaust emissions. The staff recommends the Clean Air Valve/PCV Enhancer be exempted from the prohibitions in Vehicle Code Section 27156 and that Executive Order D-208 be issued.

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EVALUATION OF VENTURES UNLIMITED, INC.'S CLEAN AIR VALVE/PCV ENHANCER FOR
EXEMPTION FROM THE PROHIBITIONS OF VEHICLE CODE SECTION 27156 IN ACCORDANCE
WITH SECTION 2222, TITLE 13, OF THE CALIFORNIA CODE OF REGULATIONS

I. INTRODUCTION

Ventures Unlimited, Inc., of P. O. Box 382, Paulden, Arizona 86334, has applied for exemption from the prohibitions of Section 27156 of the California Vehicle Code for the Clean Air Valve/PCV Enhancer. The device is designed for installation on 1991 and older model-year gasoline powered vehicles.

The applicant submitted a sample and specifications of the device to the Air Resources Board (ARB) for evaluation.

II. CONCLUSIONS

Previously the ARB exempted two similar devices: "Protector '7' by Energy Innovations, U.S.A., Inc. and "Condensator" by Condensator, Inc. Based on the engineering evaluation of the device and prior exemptions issued to devices that operate in a manner similar to the Clean Air Valve/PCV Enhancer, the staff believes that the Clean Air Valve/PCV Enhancer will not have any adverse effects on the exhaust emissions from gasoline powered vehicles.

III. RECOMMENDATION

The staff recommends Ventures Unlimited, Inc. be granted an exemption from the prohibitions in California Vehicle Code Section 27156 for their Clean Air Valve/PCV Enhancer and that Executive Order D-208 be issued.

IV. DEVICE DESCRIPTION

The Clean Air Valve/PCV Enhancer is a modified device designed to replace the PCV valve and filter crankcase emissions. Illustrations of this device are shown in Appendix A. The Clean Air Valve/PCV Enhancer is a cylindrical device approximately 4 inches long with a 1.75 inches outer diameter. There are three parts to the Clean Air Valve/PCV Enhancer; the PCV/inlet assembly, the filtration assembly and the outlet.

The PCV/inlet assembly consists of a PCV valve and a beveled surface. The PCV valve is .75 inch long with a .75 outer diameter. The valve is a standard PCV valve and replaces the original equipment PCV valve. The PCV valve is then attached to a beveled cylindrical surface in which the outside diameter changes from .75 inch to 1.75 inches.

The filtration assembly is located on top of the beveled surface and is 2.5 inches long with a 1.75 inches outer diameter. The filtration assembly consists of two filters of silica gel and carbon particles which are separated by screens and an air space.

The outlet is a 45 degree angle fitting attached to the top of the filtration assembly and connects to the original equipment PCV hose. The fitting is .75 inch high and 1.33 inches long.

V. DISCUSSION

Ventures Unlimited, Inc. claims the device reduces crankcase emissions by means of a filtration system. The crankcase emissions flow up from the bottom of the filter through silica gel where the liquid portions of the

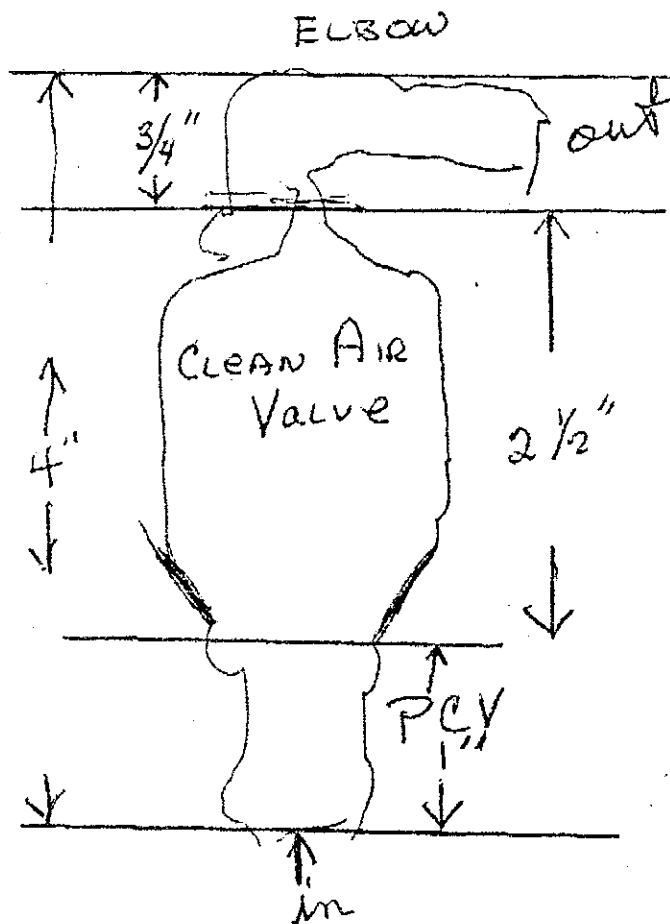
crankcase emissions are prevented from further penetration into the filtration assembly. The penetration is blocked by thousands of jagged edges formed by the silica gel granules. Heavier hydrocarbons are also filtered by these jagged edges thus separating noncombustible oils and gases from the lighter, more combustible hydrocarbons. The gases then pass through an air space which aids in preventing further penetration of the heavier hydrocarbons to silica gel and carbon particles. The combination of silica gel and carbon particles further trap heavier hydrocarbons to prevent their passage into the combustion chamber through the outlet.

The ARB did not perform any emission or fuel economy tests to substantiate the claims made by the manufacturer. No adjustments such as timing, EGR, fuel metering or any other engine adjustments are included in the installation instructions. Previously, the ARB exempted two similar devices: "Protector '7'" by Energy Innovations U.S.A., Inc. and "Condensator" by Condensator, Inc. The exemptions were granted based on back-to-back CVS-testing, fuel economy testing and engineering evaluation. Because of the previous exemptions issued to similar devices with the same operating principle and the fact that qualifying for an exemption is based on not adversely affecting exhaust emissions, the staff recommends that Ventures Unlimited, Inc. be granted an exemption as requested.

APPENDIX

Re Application For
§ 27156 Ex Order
Unlimited Ventures Inc

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Clean Air Valve

Executive Order Number 07985286

Mfg. by Unlimited Ventures Inc.
Patiden AZ 86334

Patent Pending

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INSTRUCTIONS FOR INSTALLING PCV ENHANCER

Installation of the PCV Enhancer is very simple. Remove the old PCV Valve and dispose of it properly. If a rubber grommet is included with your Enhancer replace the old grommet with the new one included with your kit. Place the Enhancer in the valve cover with the large end down and connect the hose removed from the old PCV valve to the outlet of the Enhancer.

FACTS ABOUT THE ENHANCER:

The PCV Enhancer is an effective way to reduce pollution, increase engine life, and mpg. Tests have shown that by reducing heavy hydrocarbons, (oils), from entering the combustion chamber carbon build up is reduced.

Reducing carbon build up extends engine life, increases mpg, and reduces maintenance. Carbon build up is a major cause of engine failure and lowered fuel economy.

Fleet testing shows that by replacing your old PCV valve with the Enhancer you can dramatically help reduce Hydrocarbons and Carbon Monoxide emissions from the automobile. You are helping do your part to reduce air pollution.

If you have any questions about this or other products offered by Unlimited Ventures Inc. to help reduce pollution, or if you would like a complete test report on the PCV Enhancer call 800-678-0223.

GUARANTEE:

Your PCV Enhancer is guaranteed against defects in material or workmanship for one year or 10,000. We recommend you replace your Enhancer once a year or every 10,000 miles, whichever comes first. (Normal recommendation from PCV Valve manufacturers is to replace the PCV Valve every 10,000 miles.)

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